

**ABSTRACT**

An acidic solution of sparingly-soluble Group IIA complexes ("AGIIS"), its preparation and its uses. The AGIIS can be prepared by mixing a mineral acid (such as

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5 sulfuric acid), and a Group IIA hydroxide (such as calcium hydroxide) or a Group IIA salt of a dibasic acid (such as calcium sulfate), or a mixture of the two Group IIA compounds, followed by removing the solid formed. The various uses include cleaning, food production,

10 decontamination, bioremediation, agricultural application, medical application, and detoxification of substances.